



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,964	11/26/2003	Sarvesh Asthana	871.0117.U1(US)	8994
29683 7590 08/31/2007 HARRINGTON & SMITH, PC 4 RESEARCH DRIVE SHELTON, CT 06484-6212			EXAMINER RYMAN, DANIEL J	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 08/31/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/722,964

Applicant(s)

ASTHANA, SARVESH

Examiner

Daniel J. Ryman

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 November 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 2-32 is/are allowed.
- 6) ☒ Claim(s) 1 and 33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/1/04; 9/6/05.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because in line 6 “top” should be “to”.

Correction is required. See MPEP § 608.01(b).

2. The disclosure is objected to because of the following informalities: on page 3, line 4, “SS_7 (signaling system seven) network” should be “SS-7 (signaling system seven) network 63”; on page 3, line 23, “MS 10-0” should be “MS 100”; and on page 9, line 15, “transmitter 200” should be “transmitter 210”.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (PG Pub 2002/0075823).

5. Regarding claim 1, Lee discloses a method to operate a wireless network with a mobile station MS, comprising: in response to detecting that the MS has changed its location in the wireless network, registering the MS with a base station BS to indicate the current location of the MS (¶ 20); and in response to the MS registering with the BS, triggering the sending of messages in the wireless network until information that is indicative of the current location of the MS is recorded by a centralized database (¶ 20).

Lee does not expressly disclose that the centralized database is located in an Authentication, Authorization and Accounting AAA server. However, Lee does disclose that the centralized database can be located within devices (VLR or BSC) on the network (§ 63) where it is implicit that this results in an efficient, compact device. Lee further discloses the use of an authentication center (AAA) for establishing a data session (§ 10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to locate the centralized database in an AAA server in order to have an efficient, compact device.

6. Regarding claim 33, Lee discloses a method to page a mobile station (MS), comprising: in response to the initiation of a network initiated data session (NIDS) for the MS, querying a centralized database for a current BS/PCF/PDSN affiliation of the MS (§ 69); and sending a page message to the MS in accordance with the current BS/PCF/PDSN affiliation of the MS (§§ 20 and 102).

Lee does not expressly disclose that the centralized database is located in an Authentication, Authorization and Accounting AAA server. However, Lee does disclose that the centralized database can be located within devices (VLR or BSC) on the network (§ 63) where it is implicit that this results in an efficient, compact device. Lee further discloses the use of an authentication center (AAA) for establishing a data session (§ 10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to locate the centralized database in an AAA server in order to have an efficient, compact device.

Allowable Subject Matter

7. Claims 2-32 are allowed. The prior art does not disclose or fairly suggest sending the registration signaling from the BS to the PCF, then to the PDSN, and finally to the AAA.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The examiner can normally be reached on Mon.-Fri. 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel J. Ryman
Examiner
Art Unit 2616

Daniel Ryman